Zhi Li

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Research Interests Mobile and Sensor Networks, Mobile Crowdsourcing, Machine Learning, Game Theory

Skills
Basic: Algorithm design and analysis, System building
Programming: Java, Android, Python, NesC, TinyOS
Language: Chinese (Native), English (TOEFL: R27 + L27 + S19 + W23 = 96)

Honors and Awards

Outstanding Graduate Student in Zhejiang Province	2017
Outstanding Graduate Student in Hangzhou Dianzi University	2017
National Scholarship for Graduate Student (11/304, ranked 1st)	2016
Nokia Scholarship for Graduate Student (2/147)	2015
National Scholarship for Graduate Student (10/283, ranked 7th)	2015
The First Prize Academic Scholarship (Top 10%)	2015 - 2016

Publications

Conference Papers

1. Jianhui Zhang, Pengqian Lu, **Zhi Li**, Jiayu Gan. "*". Submitted to *the IEEE International Conference on Computer Communications* (**INFOCOM'18**), under review.
2. **Zhi Li**, Jianhui Zhang, Jiayu Gan, Pengqian Lu, Fei Lin. "Large-Scale Trip Planning for Bike-Sharing System". In *the 14th IEEE International Conference on Mobile Ad-hoc and Sensor Systems* (**MASS'17**), Short paper, Orlando, FL, USA. Oct 22 - 25, 2017.
3. Jianhui Zhang, **Zhi Li**, Xiaojun Lin, Feilong Jiang. "Composite Task Selection with Heterogeneous Crowdsourcing". In *the 14th Annual IEEE International Conference on Sensing, Communication, and Networking* (**SECON'17**), San Diego, CA, USA. Jun 12 - 14, 2017.
4. Jianhui Zhang, Mengmeng Wang, **Zhi Li**. "Stochastic Duty Cycling for Heterogenous Energy Harvesting Networks". In *the 34th IEEE International Performance Computing and Communications Conference* (**IPCCC'15**), Nanjing, China. Dec 14 - 16, 2015.

Journal Articles

1. Wei Li, Jianhui Zhang, Feilong Jiang, **Zhi Li**, Chong Xu. "Asynchronous Neighbor Discovery with Unreliable Link in Wireless Mobile Networks". Submitted to *Peer-to-Peer Networking and Applications*, under review.
2. **Zhi Li**, Jianhui Zhang, Xingfa Shen, Jin Fan. "Prediction Based Indoor Fire Escaping Routing with Wireless Sensor Network". *Peer-to-Peer Networking and Applications*, 10(3): 697 - 707. [Impact Factor: 1.0]
3. Jianhui Zhang, **Zhi Li**, Shaojie Tang. "Value of Information Aware Opportunistic Duty Cycling in Solar Harvesting Sensor Networks". *IEEE Transactions on Industrial Informatics* (**TII**), 12(1): 348 - 360, 2016. [Impact Factor: 4.708]
4. Jianhui Zhang, **Zhi Li**, Feng Xia, Shaojie Tang, Xingfa Shen, Bei Zhao. "Cooperative Scheduling for Adaptive Duty Cycling in Asynchronous Sensor Networks". *The Computer Journal*, 58(6): 1267 - 1279, 2014. [Impact Factor: 0.787]

Presentation

1. **Large-Scale Trip Planning for Bike-Sharing System**, paper presented at the IEEE MASS 2017, Orlando, FL, USA. Oct 22 - 25 2017.
2. **Stochastic Duty Cycling for Heterogenous Energy Harvesting Networks**, paper presented at the IEEE IPCCC 2015, Nanjing, China. Dec 15 2015.

Research Projects

Crowdsourcing Based Bike-Sharing System, 2016 - present

- Designed two algorithms to solve the static trip planning problem, the paper is accepted by IEEE MASS'17.
- Designed a game theory based composite task selection approach in heterogeneous crowdsourcing platform, the paper is accepted by IEEE SECON'17.
- Built a crowdsourcing platform to collect real-time bike resources information and to provide bike utilization guidance for users.
- Built an application to crawl real-time open bike-sharing information of Hangzhou Public Bicycle.

Internet of Things Based Fire Escaping System, 2014 - present

- Constructed a fire spread model based on fire data generated by Fire Dynamics Simulator and proposed a fire escaping route planning algorithm based on fire spread prediction. The paper is published in Peer-to-Peer Networking and Applications.
- Designed a smartphone based neighbor discovery method based on Quorum System.
- Built a fire escaping experiment platform with TelosB nodes.
- Built a network with TelosB nodes, Android smartphones and Arduino suite.

Professional activities

Reviewer for IEEE Transactions on Industrial Informatics 2017
Reviewer for The Computer Journal 2015

Grants

1. **Excellent Master Dissertation Fostering Foundation**, "Internet of Things Based Fire Escaping System", Hangzhou Dianzi University, PI: Zhi Li, May 2016 - Mar 2017
2. **Graduate Scientific Research Foundation**, "Wireless Sensor Networks Based Fire Escaping System and Algorithm Design", Hangzhou Dianzi University, PI: Zhi Li, May 2015 - May 2016
3. **National Natural Science Foundation of China**, "Research on Environment Information Collaborative Sensing and Processing in Internet of Things", Participator, Jan 2015 - Dec 2018
4. **Zhejiang Provincial Natural Science Foundation of China**, "Research on Optimizing Task Scheduling Strategy in Random Energy Harvesting Internet of Things", Participator, Jan 2014 - Nov 2016

Education

Hangzhou Dianzi University, Hangzhou, China

- M.E., Computer Science and Technology, Mar 2017
- Thesis title: "IoT Based Fire Escaping Algorithm and System Design"
- Advisor: Prof. Jianhui Zhang

Hangzhou Dianzi University, Hangzhou, China

- B.E., Computer Science and Technology, Jun 2014

Services

Teaching assistance for *Java Programming* Sep 2015 - May 2016
Class monitor 2014 - 2017